

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/500831
Source: PCT
Date Processed by STIC: 5/9/15

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 05/09/2005

PATENT APPLICATION: US/10/500,831

TIME: 07:57:43

Input Set : A:\Sequence Listing for B0192.70052US00.txt

Output Set: N:\CRF4\05092005\J500831.raw

```

3 <110> APPLICANT: Frank KARLSEN
5 <120> TITLE OF INVENTION: DETECTION OF HUMAN PAPILLOMAVIRUS E6 mRNA
7 <130> FILE REFERENCE: B0192.70052US00
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/500,831
C--> 10 <141> CURRENT FILING DATE: 2004-07-07
12 <150> PRIOR APPLICATION NUMBER: GB 0200258.2
13 <151> PRIOR FILING DATE: 2002-01-07
15 <150> PRIOR APPLICATION NUMBER: GB 0214124.0
16 <151> PRIOR FILING DATE: 2002-06-19
18 <160> NUMBER OF SEQ ID NOS: 387
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 24
24 <212> TYPE: DNA
25 <213> ORGANISM: Human papillomavirus type 16
27 <400> SEQUENCE: 1
28 ccacaggagc gacccagaaa gtta                24
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 22
33 <212> TYPE: DNA
34 <213> ORGANISM: Human papillomavirus type 16
36 <400> SEQUENCE: 2
37 acggtttggt gtattgctgt tc                22
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 20
42 <212> TYPE: DNA
43 <213> ORGANISM: Human papillomavirus type 16
45 <400> SEQUENCE: 3
46 ccacaggagc gacccagaaa                20
49 <210> SEQ ID NO: 4
50 <211> LENGTH: 20
51 <212> TYPE: DNA
52 <213> ORGANISM: Human papillomavirus type 16
54 <400> SEQUENCE: 4
55 ggtttggtgt attgctgttc                20
58 <210> SEQ ID NO: 5
59 <211> LENGTH: 22
60 <212> TYPE: DNA
61 <213> ORGANISM: Human papillomavirus type 16
63 <400> SEQUENCE: 5
64 ctttgctttt cgggatttat gc                22
67 <210> SEQ ID NO: 6
68 <211> LENGTH: 20

```

RAW SEQUENCE LISTING

DATE: 05/09/2005

PATENT APPLICATION: US/10/500,831

TIME: 07:57:43

Input Set : A:\Sequence Listing for B0192.70052US00.txt

Output Set: N:\CRF4\05092005\J500831.raw

```

69 <212> TYPE: DNA
70 <213> ORGANISM: Human papillomavirus type 16
72 <400> SEQUENCE: 6
73 tatgactttg cttttcggga 20
76 <210> SEQ ID NO: 7
77 <211> LENGTH: 23
78 <212> TYPE: DNA
79 <213> ORGANISM: Human papillomavirus type 16
81 <400> SEQUENCE: 7
82 cagaggagga ggatgaaata gta 23
85 <210> SEQ ID NO: 8
86 <211> LENGTH: 25
87 <212> TYPE: DNA
88 <213> ORGANISM: Human papillomavirus type 16
90 <400> SEQUENCE: 8
91 gcacaaccga agcgtagagt cacac 25
94 <210> SEQ ID NO: 9
95 <211> LENGTH: 24
96 <212> TYPE: DNA
97 <213> ORGANISM: Human papillomavirus type 16
99 <400> SEQUENCE: 9
100 tggacaagca gaaccggaca gagc 24
103 <210> SEQ ID NO: 10
104 <211> LENGTH: 22
105 <212> TYPE: DNA
106 <213> ORGANISM: Human papillomavirus
108 <400> SEQUENCE: 10
109 cagaggagga ggatgaaata ga 22
112 <210> SEQ ID NO: 11
113 <211> LENGTH: 22
114 <212> TYPE: DNA
115 <213> ORGANISM: Human papillomavirus type 16
117 <400> SEQUENCE: 11
118 gcacaaccga agcgtagagt ca 22
121 <210> SEQ ID NO: 12
122 <211> LENGTH: 24
123 <212> TYPE: DNA
124 <213> ORGANISM: Human papillomavirus type 16
126 <400> SEQUENCE: 12
127 agcagaaccg gacagagccc atta 24
130 <210> SEQ ID NO: 13
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: Human papillomavirus type 18
135 <400> SEQUENCE: 13
136 acgatgaaat agatggagtt 20
139 <210> SEQ ID NO: 14
140 <211> LENGTH: 20
141 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 05/09/2005

PATENT APPLICATION: US/10/500,831

TIME: 07:57:43

Input Set : A:\Sequence Listing for B0192.70052US00.txt

Output Set: N:\CRF4\05092005\J500831.raw

```

142 <213> ORGANISM: Human papillomavirus type 18
144 <400> SEQUENCE: 14
145 cacggacaca caaaggacag                                20
148 <210> SEQ ID NO: 15
149 <211> LENGTH: 20
150 <212> TYPE: DNA
151 <213> ORGANISM: Human papillomavirus type 18
153 <400> SEQUENCE: 15
154 agccgaacca caacgtcaca                                20
157 <210> SEQ ID NO: 16
158 <211> LENGTH: 22
159 <212> TYPE: DNA
160 <213> ORGANISM: Human papillomavirus type 18
162 <400> SEQUENCE: 16
163 gaaaacgatg aaatagatgg ag                                22
166 <210> SEQ ID NO: 17
167 <211> LENGTH: 24
168 <212> TYPE: DNA
169 <213> ORGANISM: Human papillomavirus type 18
171 <400> SEQUENCE: 17
172 acaccacgga cacacaaagg acag                            24
175 <210> SEQ ID NO: 18
176 <211> LENGTH: 21
177 <212> TYPE: DNA
178 <213> ORGANISM: Human papillomavirus type 18
180 <400> SEQUENCE: 18
181 gaaccacaac gtcacacaat g                                21
184 <210> SEQ ID NO: 19
185 <211> LENGTH: 20
186 <212> TYPE: DNA
187 <213> ORGANISM: Human papillomavirus type 18
189 <400> SEQUENCE: 19
190 ttccggttga cttctatgt                                20
193 <210> SEQ ID NO: 20
194 <211> LENGTH: 20
195 <212> TYPE: DNA
196 <213> ORGANISM: Human papillomavirus type 18
198 <400> SEQUENCE: 20
199 ggtcgtctgc tgagctttct                                20
202 <210> SEQ ID NO: 21
203 <211> LENGTH: 21
204 <212> TYPE: DNA
205 <213> ORGANISM: Human papillomavirus type 18
207 <400> SEQUENCE: 21
208 gcaagacata gaaataacct g                                21
211 <210> SEQ ID NO: 22
212 <211> LENGTH: 18
213 <212> TYPE: DNA
214 <213> ORGANISM: Human papillomavirus type 18

```

RAW SEQUENCE LISTING

DATE: 05/09/2005

PATENT APPLICATION: US/10/500,831

TIME: 07:57:43

Input Set : A:\Sequence Listing for B0192.70052US00.txt

Output Set: N:\CRF4\05092005\J500831.raw

```

216 <400> SEQUENCE: 22
217 acccagtgtt agttagtt                                     18
220 <210> SEQ ID NO: 23
221 <211> LENGTH: 20
222 <212> TYPE: DNA
223 <213> ORGANISM: Human papillomavirus type 18
225 <400> SEQUENCE: 23
226 tgcaagacag tattggaact                                   20
229 <210> SEQ ID NO: 24
230 <211> LENGTH: 20
231 <212> TYPE: DNA
232 <213> ORGANISM: Human papillomavirus type 31
234 <400> SEQUENCE: 24
235 ggaaataccc tacgatgaac                                   20
238 <210> SEQ ID NO: 25
239 <211> LENGTH: 20
240 <212> TYPE: DNA
241 <213> ORGANISM: Human papillomavirus type 31
243 <400> SEQUENCE: 25
244 ggacacaacg gtctttgaca                                   20
247 <210> SEQ ID NO: 26
248 <211> LENGTH: 24
249 <212> TYPE: DNA
250 <213> ORGANISM: Human papillomavirus type 31
252 <400> SEQUENCE: 26
253 atagggacga cacaccacac ggag                             24
256 <210> SEQ ID NO: 27
257 <211> LENGTH: 22
258 <212> TYPE: DNA
259 <213> ORGANISM: Human papillomavirus type 31
261 <400> SEQUENCE: 27
262 ggaaataccc tacgatgaac ta                               22
265 <210> SEQ ID NO: 28
266 <211> LENGTH: 22
267 <212> TYPE: DNA
268 <213> ORGANISM: Human papillomavirus type 31
270 <400> SEQUENCE: 28
271 ctggacacaa cggctctttga ca                             22
274 <210> SEQ ID NO: 29
275 <211> LENGTH: 22
276 <212> TYPE: DNA
277 <213> ORGANISM: Human papillomavirus type 31
279 <400> SEQUENCE: 29
280 tagggacgac acaccacacg ga                               22
283 <210> SEQ ID NO: 30
284 <211> LENGTH: 20
285 <212> TYPE: DNA
286 <213> ORGANISM: Human papillomavirus type 31
288 <400> SEQUENCE: 30

```

RAW SEQUENCE LISTING

DATE: 05/09/2005

PATENT APPLICATION: US/10/500,831

TIME: 07:57:43

Input Set : A:\Sequence Listing for B0192.70052US00.txt

Output Set: N:\CRF4\05092005\J500831.raw

```

289 actgacctcc actgttatga                                20
292 <210> SEQ ID NO: 31
293 <211> LENGTH: 20
294 <212> TYPE: DNA
295 <213> ORGANISM: Human papillomavirus type 31
297 <400> SEQUENCE: 31
298 tatctacttg tgtgctctgt                                20
301 <210> SEQ ID NO: 32
302 <211> LENGTH: 22
303 <212> TYPE: DNA
304 <213> ORGANISM: Human papillomavirus type 31
306 <400> SEQUENCE: 32
307 gacaagcaga accggacaca tc                                22
310 <210> SEQ ID NO: 33
311 <211> LENGTH: 24
312 <212> TYPE: DNA
313 <213> ORGANISM: Human papillomavirus type 31
315 <400> SEQUENCE: 33
316 tgacctccac tggtatgagc aatt                            24
319 <210> SEQ ID NO: 34
320 <211> LENGTH: 26
321 <212> TYPE: DNA
322 <213> ORGANISM: Human papillomavirus type 31
324 <400> SEQUENCE: 34
325 tgcgaatata tacttggtgtg ctctgt                        26
328 <210> SEQ ID NO: 35
329 <211> LENGTH: 26
330 <212> TYPE: DNA
331 <213> ORGANISM: Human papillomavirus type 31
333 <400> SEQUENCE: 35
334 ggacaagcag aaccggacac atccaa                        26
337 <210> SEQ ID NO: 36
338 <211> LENGTH: 18
339 <212> TYPE: DNA
340 <213> ORGANISM: Human papillomavirus type 31
342 <400> SEQUENCE: 36
343 actgacctcc actgttat                                18
346 <210> SEQ ID NO: 37
347 <211> LENGTH: 21
348 <212> TYPE: DNA
349 <213> ORGANISM: Human papillomavirus type 31
351 <400> SEQUENCE: 37
352 cacgattcca atgagccca t                                21
355 <210> SEQ ID NO: 38
356 <211> LENGTH: 22
357 <212> TYPE: DNA
358 <213> ORGANISM: Human papillomavirus type 33
360 <400> SEQUENCE: 38
361 tatcctgaac caactgacct at                                22

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/500,831

DATE: 05/09/2005
TIME: 07:57:44

Input Set : A:\Sequence Listing for B0192.70052US00.txt
Output Set: N:\CRF4\05092005\J500831.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:385,386,387

VERIFICATION SUMMARY

DATE: 05/09/2005

PATENT APPLICATION: US/10/500,831

TIME: 07:57:44

Input Set : A:\Sequence Listing for B0192.70052US00.txt

Output Set: N:\CRF4\05092005\J500831.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date